## 1/12

1600 1680 1760 1840 1040 1120 1200 1280 1360 1440 1520 400 480 560 640 720 800 880 960 COACOCITITIC AITGAAGGIRII GCIRACAACC TITRAICITITIC TIGGCIRACCI TIGGCIRACC AACITICCITI' CGIRACACTGC OCCIBOCHATI TICHCOTIGIC ANGCHOOCCA MENIGIMIGI CITICHTITII CINCERAGGA ACTICESCOCC CAATGOCACC GTGGAGACT COSTCCATCT GCACGGCTCC CCATGGCGTG CCCCTTTCCA TOSTTGGGCT CCAATCCOCC COCCITCIGI GSTACCAIGA TACTITICSTIC AGGCIGGCCC CTACATTAIC AACCACCAGG CICAGGANGC ICTCCGGICTI' CCTAGNGCT TOCHOLOGIG TICHARAPA COTTOTITICT CITACHOCIT ACCOTORICA CATTOROGIA ACTOTICOCO TOTITICGIO ATTRAGECTIC TITEATECCORA AGTRAMARCT CAGGICTICG CITACITOCOT CCTUGGIGGA GCAGGGANIG GICACCICCA TACAACITICO TITRACAGGIG ACACACIGI COCACCIGIT TICOCCICCAR AACIAACICI TICINGENIC ATTROCOACC CIGICACCOS CRAGERCRIT TIGENCINIG ACATICARENT CRACCEATITY TENGITIECT CAGNARCIT GIOSTRAITR ATCHITGITR CICACCCITY CACATITRCC CCACCITICOS ACTIGITAGITTA CITICOROSC GOMANASCI CCITISCOGA GOSSOMORA CINICAAGIG AGCAINUAG GAUSCAITSIC ACAGITAGOS TESTERACCIA. CICCAAREAS COCCEACITG CATGORITACO ACATIGICACI. TOCATGORAC ACAICGESCEA TCAGESCACCC TCTGCAGGCA GAATMGRACC CCCCTGETTT CCTTTTGTTT CTTTTTCCTTT CHEMBORIC GITAACTICA COAABBOOCA GIOSTOTOTI CACAAGBITA COATGOAACT CICTICITIC CCICOCCCC CAGITIMACC COCATCACCS CIGICAMATIC CACTICCAMA AITCCIMACT AGIICCIMATIC COCOURAITS GESCACTITIS STOACATICS CITICETIVOT COTACCIOST TOTOTICOSC ATCAASOCTIC CACAACACCII CAITIGSCOCC CACCACITIC ACCCOCACA CACCITICGC CCCAAGGAGTI TGAITAACACC OCCUPATION CONSTITUTES TOTALITIES ARCHITCACT CACATICACT AGAICACCOA TOCHGOAACA GOOGRACIS CINGIOCOTO TICTICOROS CICAGOTORO CICCIMACOS CIPATOROS TOROSATIRA OCCUPATION TOPACION TOCCERATIF COCURACIO TRUCCOSERG CACCOSICIE GAATOGICIC GONACTIGACA GONACCTOCO GOCTOCTIGTO TIGANGTOCTIC GACATOCOGA TIGANCACAGO CACACOCTIC ACACOCTORC TICSCITICS STORMASCOC AGTORATATIC TITGGTORCTIC CICCIOSSON ACRAIOSCAT GAGOCOTOST CONACTITOA ANGTITOCOAG AGRAPAGAGA. GOURANCE GOURCOARG CORPAGONE CORPARATOR ARRANGEROR COGRAMOTOR GOUGHANDED GANGAIGHEA COTHCCOTTGG CONGENCAAG GAITBACEACT THCCCAAGEB CAAGTOCOGT AAAGTOCAGA TCAAGTCATG TCACTIGGIA GUICAICAA TCACAATIOCC CAGOCAGGGC TRIPOGRATIC CACTRATIGITA CAGCAAAGGG CCTCCCACT CONTINUENA AATTATIGCTIGT ACCRICIOGGA TITICATAGOC ATGINIGOOC CICAACCACC CCAATCATGA TICAMINGIT IMIGCCCGAC CITICACCUT CIGOCIPAGO CIPATPGITC

HOUSELE CHICAGON

# FIG.\_1/

# FIG.\_1

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000000	TO KOOD KOO	びなび中なり中ななり	ATATAAGAG	AGGGATGTTC	TGTCAACAAT	AATCCCATCA	TCAGCTTTTG	80
STOCKTOR	GGATCCACCT	OHIO THE THE	じしまできませる	TOPAPACCT	CTTCTCAGCA	CTTCAACTCG	TTTCAATTGC	160
AACALTCICA	GCICATCARA	STITITES OF THE PARTY OF THE PA		AAATTTGTCG	ACAACACCCC	CGACGAAGAA	AAGGCTGCCT	240
GRAGGCATA	TACGGYGICG	CTTTGAGCGA	A KOHOMMOM K	A A A DITTOR A D	GACTGGCAAA	GCCCGGAGTA	TCCTCTCATT	320
TGGCGTCAAT	TGTTGAAGAT	GACCCTGCGG	ALCO LOT A	TOTOTOTO	GTTCAATCGC	ATCGACAGGT	TTCTTAGAAT	400
TTCGCCAAC	CACTGCCCAT	コンラダンT.T.C.	A A DA	TABABBBATA	ATGGTACTAC	GAGATTGTCA	TCAAACCCTT	480
ATACTCACCA	ICCACAGIAA	ACICACGRAI	ないはいことはいうかん	GTACCCTATG	ACGGCATCTC	CCCAGGTCCT	ACGATCATAG	260
CACCCAGCAG	ECOLUTION OF STREET	いつうりつうてつつち	ACCA ACTAPT	CCCTCATCCC	GAAAGCTCCA	TCCATCTCCA	೧ಆಡಿಂಗದಿಂದರ	640
TGCCGAGAGG	AACAGAAGCI	上をひたしてひとして	CATATGATCA	TGAAGGGGA	ATACAAAGGT	ACGATAGCGT	GTGATTCTAC	720
TOTAL STATE	のかないまではついて	DO A DE SELECTE	ACTTTCTTCT	CAGACTACTA	CTACCCGAAC	AACCAAGCTG	CCAGATTTTT	800
	な正しむ正ない正なむ	TGTTGTTGT	AAGTCTTTAC	CGACTTTTCA	TGGTAGTGAA	ACGGAAGGAT	TAAGCTAACA	880
ないないできていた	CCGCAGAAAA	TGCCTATTTC	GGGCAAGCCG	GCGCCTACCT	GATCACAGAC	CCGGCTGAGG	ATGCTCTCGG	960
なり出出して出出して	GGTTACGGAA	AATACGACAT	TCCGCTGGTC	CTCAGTTCCA	AGTACTACAA	CGCCGATGGA	ACTCTTAAGA	1040
ででいるよう	DAGDAGDA	AGTGTTTGGG	GCGACATCAT	CCATGICAAC	GGTCAGCCCT	GGCCATTCTT	AAATGTTGAG	1120
TOWA & COLOR	ATCGTCTTCG	ATTCCTCAAC	GCGCCTGTTT	CTAGGAACTT	TGCCCTTTAC	TICGICAAGC	AAGACAACAC	1200
でではたべしていた		AGGTCATTGC	CTCTGATGCA	GGCTACTCA	CACACCCGGT	TCAAACCTCA	GATATGTATG	1280
してしているとしかに	していってもです		TCGATTTCGC	GCCCTATGCC	GGCCAAACGT	TGGATCTGCG	CAACTTCGCA	1360
DE S S L L L L L L L L L L L L L L L L L	していたのかしてなかっ	_	TACGCAAACA	CTGACAAGGT	CATGCGTTTC	CACGICAGCA	GCCAAACAGT	1440
Appropriate		_	ATCTCAGATC	CAGTTCCCCG	CGGACAAAAC	CGACATAGAC	CATCACTICC	1520
DOMEST AND THE		_	TCAACGCCAT	CGGGTTTGCA	GACGTCGAGA	ACCGTGTTCT	TGCCAAGGTA	1600
STRUCTOR		上上して なりつつか上	GAGAACAGCT	CCGGCGGCTG	GTCACACCCC	ATCCACGTCC	ACCTAGTAGA	1680
WI DECECTOR OFFICE	- `		AGGCACTCGC	GGCGTCATGC	CCTATGAGGC	CGCCGGTCTC	AAGGACGTCG	1760
CTTCCGAGT	•	•	TCGAAGCACA	TTACGCCCCA	TGGGACGGAG	TCTACATGTT	CCACTGCCAC	1840
DESCRIPTION.	•		_	ACGTGACTAA	ACTCCAGAAC	TTTGGGTACA	ACGAGACGAC	1920
AACCICAICC	•	•		_	CGGGTGATCT	CACGGCGCGA	TCGGGTATCT	2000
TGATTTCCAC	GATCCTGAGG			_	CCTTACAGCG	AACTCGCACA	AGTTACAGCC	2080
TTCAGAAGA			•	ACGAGTGCGA	AGACATGCCT	GCTGGCCCTA	TCCCCCGTTA	2160
TCGCTCGAGC	•	_			TCTTCTCCC	ATTGAACTTA	ATTGTAGATG	2240
TCGTAGGTTT					ATTIGGICTT	ATTGTGCTAT	ATACTGTCTA	2320
ATGGATACAC	•	_	•	_	CTGCTGAGGT	GACACCTCGC	GACGCCATCT	2400
TTTCTCTTC		•			AGTAACAGCT	TGATGTTAGA	TTAGCAATGA	2480
TAGCAGTTT	_	_		٠,	CTATACTAAA	GAATGTGAAC	AATGCCGTTT	2560
GACGAACGAT	_	_	_	THE PERSON NAMED IN	というとは、	_	CCTCGGCATC	2640
TATGAAATGC	_	_	•		CCTAGAAAT		AAAGCAGTCC	2720
AGACAAGAGA	-	_			GCGGATGGCG	_	TGCGAACCCA	2800
TCCACGCGCT	-	_			CGGATGCAAT		GGGTTTTCTG	2880
TTGAATGGGC		_	GCTAAGGACG	_	1			
CATCCCAGCA	AGATGAGGTG	GATCC		i				

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MVAKYLFSAL QLVSIAKGIY GVALSERPAK FVDNTPDEEK AALASIVEDD 50
PADVVNMLKD WQSPEYPLIF RQPLPIPPAK EPKKITHPVT NKEIWYYEIV 100
IKFFTQQVYP SLRPARIVGY DGISFGPTII VPRGTEAVVR FINQGDRESS 150
ENAJFGQAGA YLITDPAEDA LGLPSGYGKY DIPLVLSSKY YNADGTLKTS 250
VGEDKSVWGD IHVNGQPWP FLNVEPRKYR LRFLNAAVSR NFALYFVKQD 300
NTATRIPFCV IASDAGLITH PVQTSDMYVA AAERYELVFD FAFYAGGTLD 350
LRNFAKANGI GTDDYANTD KVMRFHVSSQ TVVDNSVVPE QLSQIQFPAD 400
KTDIDHHFFF HTNGEWRIN GIGFADVENR VLAKVPRGTV ELWELENSSG 450
GWSHPIHVHL VDFRVVARYG DEGTRGVMPY EAAGLKDVW LGRHETVLVE 500
AHYAPWGGYY MFHCHNLIHE DQDMMAAFDV TKLQNFGYNE TTDFHDPEDP 550
KWSARPFTAG DLTARSGIFS ESIRARVNE LALEQPYSEL AQVTASLEQY 600

## FIG. 3

	627	: :: ::: ::: :: :: :: : : : : : : : :
	594	agnfsaesitarvoelaegepynkldeiledugiee
	265	: ::::::::::::::::::::::::::::::::::::
	558	GRGQVMPYESAGLKDVVWLGRGETLTIEAHVQPWTGAYMWHCHNLIHEDNDMAAVFNVTAMEEKGYLQE-DFEDPMAPKWRAVPYNRNDFHAR
	470	::::::::::::::::::::::::::::::::::::::
	466	VSSGTVEDNSQVPSTLADVPPPPHKEGPADKHFKFERSNGHYLLNDVGFADVNERVLAKPELGTVEVWELENSSGGWSHPVHIHLVDFKILKRTG
/ 12	376	relnaavsrnealyevkodntatrlpeqviasdagli/hevqtsdmtvaaæexyejvfdfabyagqtldlenfakangigtdddyntdkvrfe
5 /	371	RESPIN
	281	relwyhdhamhytaena yfgqagay litdpaedalglesgygkydielylsskynadgylktsygedksywgdiihyngqpwpflaveprkyrl
	276	rllmyhdhafnktaena yfggagayi indeaedalglesgygefdipliltaxyynadgtlrstegedollmodyihyngqfnpfinyqprkyrf
	186	KEIWTYEIVIKPFTQQVYPSIRPARLVGYDGISPGFTIIVPRGTEAVVRFINQGDRESSIHLHGSFSRAPFDGWADDMIMKGEYKDYYYPNNQAA 186

M----LFKSWQLAAASGLLSGVLGIPMDTGSHPIEAVDPEVKTEVFADSLLAAAGD-----DDWESPPYNLLYRNALPIPPVKQPKMIITNPVTG nvakylesalolvsia---kgivgvalserpakfvdnypdeekaalasiveddpadvvnmlkdwospeyplifroplppakepnkl-tnpvtn kdiwyyei eikpforiyptirpativgydgmspgptfivypfityvrfinnatyensyhlhgspsrapfdgmaedytffgeynyyffnyga

86 91 180

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148 540

360 118 450

Ö

HOLDELIA . CERSON

# GICAAIPAIGCIIGITICAAGICAIGSCAACIIGSCACCACCICCCGCICCIICGGAGIICCIICGGCAAICCGAGACAGCAGCACCACCAC H A × а н G ч > G ß ы ы Ö S 4 4 4 Д o 3 S ×

270 180 28 88 CONTRANCITIES TITTA CAGEARITECCTICOCORRITICO ACTICICAM CAGEACOCOM CATTACCARTE ACCONTRICA CONTRACTOR CAGEACTICA CAGAACTICA OCONTRA GENERAL CONTRA GENERAL CONTROCTION CONTROCTION CONTRACTION ш 3 ρ ρ Ö 4 4 d ч ы S Ω 4 Ĺ, > ω H × > щ a Д Þ ω Ω

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178

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### 1710 1791 1440 1530 1620 1350 1080 1170 1260 568 594 508 538 418 448 478 388 066 328 358 CACAACTICATTCACAGATAACAACAITAATTCAACTICAACGICACCATICAAGAAAGAAATTCAACAACAACATTCAAG ASCACCCGTCCACATTCACCTTGTTGACTTCAAGATCCTCAAGAACTGGTGGTGGTGGTGGTCACGTCATGCCCTACAAGTCTGCTTGTT CTIPA GEALISTICS IN 1933 CA AGASSICA ACCOMPACATICA GEOCCA ACCOMPACATICA ACTUAL ACADICA CONTRACADOS ACTUAL GECTITICECCENTETICA ATTENACTIFIC CTICECCA ACCICENCE CONTRA ACTICE ACTICENCA ACTICITICA A GTONG PARTICULTICON A STONITICO TICHNICO TICHNICO STONICA CACACOTOTINA COTOTICO TICHNICO TICH OSTIPACIN-GATTATTICA-CTITCA-CCAACITITISCITISCOCCAAACITICATICA-CAAAGATTICATICA-CAAAGATIGTOCCOCAAAGAATGTOCCOCAAA CALCAGINGCIOCCACTOTOCCAGGIGANICOCTITOGIOGICAGCACTICITGCAGGACAACACAGGIGCOCTOCACTOTOCAGI O O > Д ᆸ Ø I Ω Ü Ω S 3 U E z OCCORPETION CONTROL OF THE CONTROL O ш Σ > ഗ Н S ø × Ω S ы Д ы S × z > > z а 4 > Ĺ, Ö H ω Σ ч Н O z > ۲ ပ Ö ഗ н z ω ტ L o 3 × Ø z z ш S Ω Д ш 4 O Ω ß H > 3 ы ĸ O ы ĸ z ĸ > ы 0 Σ æ Ы ტ × ы ш ø > > н U I Ø I H <u>[1</u> > Д Н ш K E μ, E Ω × Н Ċ ø Ω ы > Д O ĸ [I ы ø S ы × z z ы н ы Ξ ы S ĸ ч H [14 ĸ ы o × ы > z н H > z Ω Д G > G × Н × > æ 4 × 4 æ ſ. Д Д Ø ш Σ Д ш Δ Ĺ ĸ > ы Д O Σ O Ω z Σ ഗ ø > > ĸ Ω Þ > ш ۲ æ ш ĸ U z ш ĸ ы [L × н Ø 3 ы Ω ω I > Ω П $\Xi$ H 3 ш :4 ρ, z н O н **[-**U, > > I I ĸ Д н Ĺ o z æ ſ. > Д н Σ > ш ۶ Д > G S ď Д

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1 2 3 4 5 6 7 8 9 10 11 12

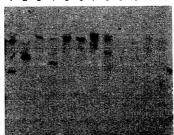


FIG.\_6

1 2 3 4 5 6 7 8 9 10 11 12



FIG.\_7

1 2 3 4 5 6 7 8 9 10 11

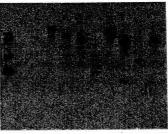


FIG.\_8

TOPECTURE, CLICAL

Phenol Oxidizing Enzymes GC561-3C1 Huaming Wang et al 9 of 12

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TYCOSCTYCC ATCSCACCAA CASCSAGYGG CSCALCAACG SCATCGSGFT TSCAGACGTC CAGAACCGTA TCCTGSCCAA GGTACCGCSC GSCACTGTCG 1500 agctategga actogagaac agctcoggog gotgetogca coccatocac gtocacotegg togacitocg agtostogca ogctacgetg acgaaagcac 1600 1800 TGAGCETCGA AAGTATCGCC TTCGATTCCT CAATGCGGCT GTTTCTCGGA ACTTTGCCCT CTAFTTCGTC AAGCAACAAG CCACTGCTAC TAGACTTCCT 1100 TYGCCTCTGA TGCAGGGCTA CTCACGCACC CGGTCCAAAC CTCAGATATT TACGTGGCAG CAGCAGAGCG CTACGAGAIT GTATTCGACT 1200 TSCRAGOCCAG ACGATAGATT TGCGTAACTT TGCAAAGGCC AATGGGGTCG GCACCGATGA CGATTATGCA AACACTGACA AGGTCATGCG 1300 CTTCCATOTC AGCAGCCAAG CAGTCGTCGA TAACTCGGTG GTACCCGCAC AGCTATCTCA GATCCAGTTC CCCGCCGACA AAACCGGCAT CGACCACCAC 1400 GAGTICGAIT CAICTICAIG GIICICCCIC CCGIGCCCCC ITIGACGGAI GGGCIGAAGA ITIGAITAIG AAGGGCCAAI ICAAAGGIAC AACAGAACAA 600 TOTINISCAT CAGGGIGCCI CITITATACI AACACGACIC GIICITAGAC TACTACTACC CGAACAACCA GGCIGCCAGA ITCCIGIGGI ACCACGAICA 700 TOCTATIGCAT GITGIAAGIC TIGCAGACTA AICAIGGGAG CGAAACGGAA AGAICGGGCT GACACTIAIG CAGACTGCGG AAAAIGCCTA TITIGGACAG 800 AAACCCCCGA CGAAGAAAAG GCTGCCCTGG CAGCCATCGT TGAAGATGAC CCTGCCGATG TTTTCAGAAT CCTGAAGGAC TGGCAAAGCC CGGAGTATCC 200 OGCAGTABABA TGACGABATCC TGTCACABAC AAGGAGARCT GGTACTAGGA GATTGTCATC AAACCCTTTA ACCAACAGGT CTATCCAAGT CTACGTCCTG 400 anggitgeca aaracticit cicggeacit caactegett caattgegaa aggeatariac ggegitgett tgagegageg tectgecaaa taraitgaeg TOGOGGOSTO AFGCCCTACG AGTCCGCCGG TUTCAAGGAC GTCGTGTGGC TCGGCCGCCA CGAGACGGTG CTCGTCGAAG CACACTACGC CCCCTGGGAAC GRAGICTACA TGITCCACTG CCACAACCTG ATCCACGAAG ACCAAGACAT GATGGCCGCG TTTGACGTGA CTAAGGTCCA GAACTTTGGC TACAACGAGA CGACGGATTT CCACGACCCG GAAGATTCTC GCTGGTCTGC AAGACCCTTC ACCGCGGCTG ACTTGACGGC GCGATCGGGT ATCTTCTCAG AAGCATCCAT CAGGGCTAGA GTGAACGAGT TGGCGCTGGA ACAGCCGTAC AGCGAACTGG CACAGGTCAC GGCCTCGCTC GAGCAGTACT ACAAGACGAA CAAGAAACGC ACAACAGTSA TGGAACTCTC CAGACCAGTG TGGGAGAAGA CAACAGTCTC TGGGGCGACG TCATCCATGT CAACGGTCAG CCCTGGCCAT TCTTCAACGT AGGCTATGAT GGCATTICAC CAGGCCCTAC GAICATCGTG CCGAGAGGAA CAGAAGCCGT TGTACGATTC GTAAACCAGG GTGATCGCGA OCTGGCGCT ACTGARCAC AGACCCAGCT GAGGACGCC TCGGCCTTCC TTCGGGTTAC GGAAAATACG ACATCCCACT GGTGCTCAGT TCCAAGTTCT CANCETTITI CGCCAGGCAC IGCCCAICCC ICCAGCCAAG GAACCCAAGT AGTGAGTCTI GAATTGCAIG GACAGGTITC CTAGAATAIG CTCACCCAIC CAGGCCGAGT GCGAAGAT GCCTGCTGGC CCCATTCCCC GTTATCGCAG GTTTCAGGTC TGA TTCCAGGTCA

ahyapwogvy mphchnijhe dodmmardv tkionfesne tydfhdpeds kwsarptaa dizarscifs eastrakvne laleqpysel aqvtaslegy 600 enaypegaga ylitdppaeda lglebegyekt diplvlesky ynsdotlûts vgednslmod vihvnegemp penvedriyr lrelnaavsk npalyfvkog 300 ATMIRLPRQV IASDAGLLITH PVQTSDIYVA AAERYELVFD FAPYAGQTID LRNFAKANGV GTDDDYANTD KVNRFHVSSQ AVVDNSVVPA QLSQLQFPAD 400 KYGIDHHFRF HKTNSEWRIN GIGFADVQNR ILAKVPRGTV ELWELENSSG GWSHPIHVHL VDFRVVARYG DESTRGVAFY ESAGLKDVW LGRHETVLVE 500 NYAKYLFSAL QLASIAKGIY GVALSERPAK YIDETFDEEK AALAAIVEDD PADVFRILKD WQSPEYPILF REALFIPPAK EPNKUTNPVT NKEIWYYEIV 100 IKPENQQVYP SLARPARLIVGY DGISPGPTII VPRGTEAVVR FVNQGDRESS IHLAGSPSRA PFDGMAEDLI MKGGFKDYYY PNNQAARFLM YHDHAMHVTA 200 YKTNKKRQAE CEDMPAGPIP RYRRFQV

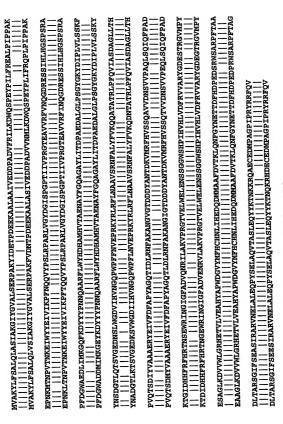
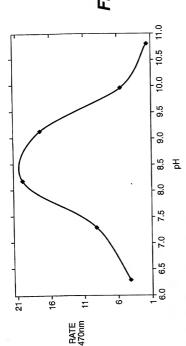


FIG.\_1





FORESTE SETTION

# TAENAYFGQAGAYILNDEAEDALGLPSGYGEFDVPLALSAQAVNADGTLR TAENAYFGQAGAYIINDEAEDALGLPSGYGEFDIPLILTAKYYNADGTLR TAENAYFGQAGFYILHDPAEDALGLPSG--KYDVPLALSLQAVQQRRTLF 30

S.chartarum

A. atrum

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70
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FIG.\_ 14

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380 456

gtgatcaactttcctgtcatcggtgccgatactggtctttgaccaagcctgttckgackaagcaacttgagatct CTATGGCCGAGCGCTGGGAGGTTGTTTTGACTTCAGCCAATTTTCCGGGAAGAACGTCACCTCAAGAACGGTCG 

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FIG.\_ 13

AAAGGAAGCACTTTCAAGGGCG

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